Package 'mCSEAdata'

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Type Package
Title Data package for mCSEA package
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Description Data objects necessary to some mCSEA package functions. There are also example data objects to illustrate mCSEA package functionality.
Depends R (>= 3.5)
Imports GenomicRanges
Suggests BiocStyle, knitr, rmarkdown
VignetteBuilder knitr
biocViews Homo_sapiens_Data, MethylationArrayData, MicroarrayData, ExperimentData
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R topics documented:
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mCSEAdata-package

Data and examples for mCSEA package

Description

Association files between Illumina's 450K and EPIC microarrays probes and promoters, CpG Islands and gene bodies. Annotation for the previous microarrays' probes. There are also sample data from EPIC platform and expression microarrays to test mCSEA functions and a necessary object for mCSEAPlot function.

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Examples

data(mcseadata)
data(bandTable)

bandTable

Human chromosomes information

Description

bandTable contains chromosomes band information and centromer location. It is used by mC-SEAPlot() function to plot the chromosome track.

Usage

data(bandTable)

Format

data.frame

Source

Obtained with Gviz's IdeogramTrack() function.

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mcseadata

Data and examples for mCSEA package

Description

Association files between Illumina's 450K and EPIC microarrays probes and promoters, CpG Islands and gene bodies. There are also sample data from EPIC platform to test mCSEA functions and annotation for 450K and EPIC probes.

Usage

data(mcseadata)

Format

matrix (betaTest and exprTest), data.frame (phenoTest), list (assocPromoters450k, assocPromotersEPIC, assocGenes450k, assocGenesEPIC, assocCGI450k and assocCGIEPIC) and GRanges (annot450K and annotEPIC)

Source

betaTest and phenoTest are simulated data. exprTest was obtained from leukemiasEset package. annot450K and annotEPIC were constructed with minfi package. assocPromoters450k, assocPromotersEPIC, assocGenes450k, assocGenesEPIC, assocCGI450k and assocCGIEPIC were constructed from IlluminaHumanMethylation450kanno.ilmn12.hg19 and IlluminaHumanMethylationEPICanno.ilm10b2.hg19 packages annotation data.

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